

<b>Preface</b> .....	<b>IX</b>
<b>Scientific Programme</b> .....	<b>1</b>
<b>Author Listing</b> .....	<b>95</b>

## GAME METHODOLOGY

<b>An Evaluation of Difficulty Heuristics in Game Design using a simulated Player</b> Fergal Costello and Colm O’Riordan.....	<b>5</b>
--	----------

<b>A GOAP Architecture for Emergency Evacuations in Serious Games</b> César García-García, Laura Torres-López, Victor Larios-Rosillo and Hervé Luga .....	<b>10</b>
--	-----------

<b>A Constrained Growth Method for Procedural Floor Plan Generation</b> Ricardo Lopes, Tim Tutenel, Ruben M. Smelik, Klaas Jan de Kraker and Rafael Bidarra .....	<b>13</b>
--	-----------

## ARTIFICIAL INTELLIGENCE

<b>Playing Tetris Using Learning by Imitation</b> Dapeng Zhang, Zhongjie Cai and Bernhard Nebel .....	<b>23</b>
--	-----------

<b>Efficient multiple-agent path planning in grid and non-grid worlds</b> Jürgen Eckerle and Markus Roth.....	<b>28</b>
--	-----------

<b>A Heuristic Based Approach to Team Based Behaviours in Real-Time Strategy Games</b> Nigel Burke and Colm O’Riordan .....	<b>35</b>
--	-----------

<b>A Scalable Approach to believable Non-Player Characters in modern Video Games</b> A. Rankin, G. Acton and M. Katchabaw.....	<b>40</b>
---	-----------

## GAME SIMULATION AND GRAPHICS

<b>Ballistic Damage Models and their Affects on Game Play</b> Tom Feltwell.....	<b>51</b>
--	-----------

<b>Towards An Exaggeration Machine</b> Ken Newman .....	<b>56</b>
--	-----------

# CONTENTS

## GAME DESIGN

### **Colors and Emotions in Videogames**

Evi Joosten, Giel van Lankveld and Pieter Spronck.....61

### **Emotion Assessment in Game Playing**

L.J.M. Rothkrantz, R. Jansen, D. Datcu and M.C. Popa .....66

### **Involving Player Experience in Dynamically Generated Missions and Game Spaces**

Sander Bakkes and Joris Dormans.....72

### **Real-time Load Balancing of an Interactive Multiplayer Game Server**

James Munro and Patrick Dickinson.....80

### **Narrative Memory in Hyperfiction and Games**

Helena Barbas .....85